

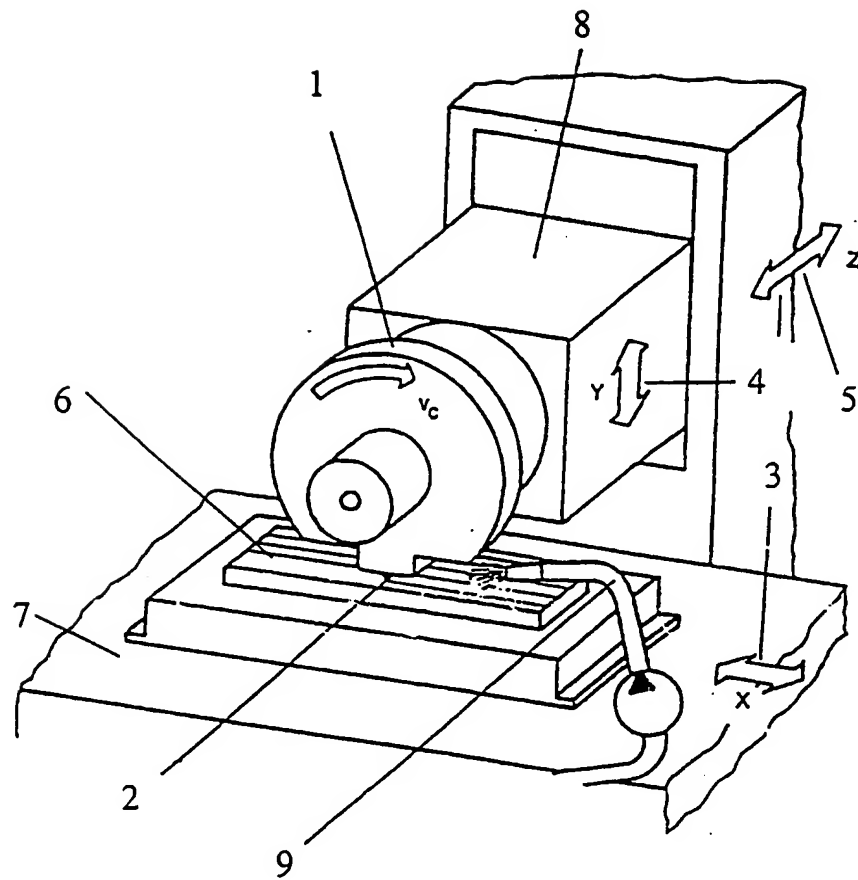
Abbildungen

Abb. 1: Prinzipieller Aufbau des Prüfstandes zum Einkornritzen

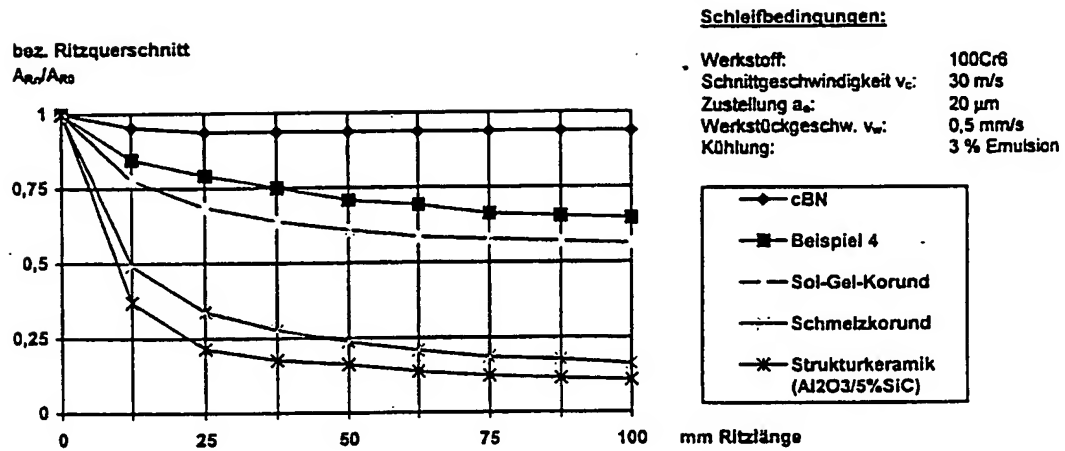


Abb. 2: Verschleißkurven von Al₂O₃/SiC-Nanokomposits im Vergleich zu einigen typischen Schleifkörnungen

Illustrations

[see original drawing]

III. 1: Elementary diagram of the test stand for one-grain scratching

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rel. scratch cross section

 A_{R0}/A_{R0}

[see original]

Grinding Conditions:

Material:	100Cr6
Cutting speed v_c :	30m/s
Feed motion a_s :	20 μ m
Work piece speed v_w :	0.5 mm/s
Coolant:	3% emulsion

----- cBN

----- Example 4

----- sol/gel corundum

----- melt corundum

----- structure ceramics
(Al₂O₃/5%SiC)

mm scratch length

III. 2: Abrasion curves of Al₂O₃/SiC nanocomposites as compared with some typical abrasive grains

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[photograph]

Figure 3

[photograph]

Figure 4